New model information

AVR-2312

Integrated Network AV Surround Receiver

DENON

Support AirPlay and Network Functions

The new AVR-2312 offers consumers unprecedented networking capabilities, flexibility, performance and reliability with a strong emphasises on “right out of the box” ease of use. The receiver comes with a host of next-generation lifestyle features geared towards today’s “networked home”, as well as a sleek new Denon cosmetic with a newly designed front panel and thinner profile. Most remarkably, he has AirPlay already built-in for the most convenient music streaming from iTunes libraries and Apple’s iPhone/iPad/iPod touch.

100th Anniversary since 1910

www.denon100.com

AirPlay

Made for iPod iPhone

Network napster flickr last.fm RDS RadioTEXT

DOLBY TRUEHD PRO LOGIC IIz dts-HD Master Audio NSV HDMI AUDYSSEY MULTEQ XT DYNAMIC VOLUME 3D Multi Zone Personal Memory Plus CINEMA EQ

Features

New Features

- AirPlay built in
- Enhanced network capability (*1)
  - Internet Radio and network audio/photo streaming via Ethernet
  - Last.fm, Napster and Flickr online support
  - ‘Party Mode Plus’
  - FLAC HD, High-resolution audio format
  - Compatible with Windows 7
  - web control
- Supports “Denon Remote App” to simplify operation by an iPhone/ iPod touch
- Internet Radio and Preset buttons, for quick, easy enjoyment of Internet radio
- Four quick select buttons, quick access to frequently-used video or music sources
- Setup Wizard, providing easy-to-follow setup instructions
- Easy operation, Graphical User Interface with overlay on HD sources
- 7-HDMI inputs and 1-output

State-of-the-art Denon Solutions for Maximizing Content Quality

- Fully discrete, identical quality and power for all 7 channels (135 W x 7 ch)
- Stable power supply for high-quality sound and picture playback
- Supports HDMI (V.1.4a with 3D, Audio Return Channel) Deep Color, “x.v.Color”, Auto Lipsync and HDMI control function
- High definition audio support, Dolby TrueHD and DTS-HD Master Audio
- Supports Dolby Pro Logic IIz processing
- Dual subwoofers preout
- Extended picture adjustment possibilities
- I/P Converter and Scaler up to 1080p

Connectivity & Future-ready Expandability

- Direct play for iPod and iPhone via USB
- Power Amp Assign function, for versatility in using the AVR-2312 for different purpose (Surround Back, Front Height, Zone 2, Bi-Amp, Front Speaker B)

Ease-of-Use

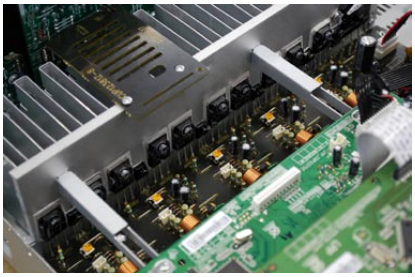
- Audyssey Dynamic Volume for real-time volume adjustment
- Audyssey MultEQ XT and Auto Setup

Others

- Low power consumption at stand-by of 0.1W
- Control4, AMX or Crestron third party control support

More Features

- **Fully discrete, identical quality and power for all 7 channels (135 W x 7ch)**
  To faithfully reproduce the original surround sound, each of the AVR-2312's 7 channels is equipped with the same power amp of equal power. Since these power amps also use discrete rcuits configured with parts strictly selected for their contribution to high sound quality, rather than with low-cost integrated circuits (ICs), the surround sound playback is of impeccably high quality.



- **Featuring 3D pass-through technology**
  By connecting a 3D-compliant Blu-ray disc player and 3Dcompliant TV to the AVR-2312, you will have a 3D home theatre where you can enjoy high-definition sound and video on a level you've never experienced before.

- **Minimum Signal Path for clear audio and video signal**
  The "simple and straight" design concept has been thoroughly implemented in the signal paths to contribute to immaculately clean audio and video playback. Signal paths are as short as possible to keep signal degradation in the audio and video circuitry to an absolute minimum.

- **Direct Mechanical Ground Construction, embodying concepts for thorough vibration resistance**
  Vibration-resistant construction has been reviewed to thoroughly suppress the adverse influences of vibration on sound quality. The power transformers, a source of vibration, have been securely mounted on the highly rigid bottom chassis.
  Direct mounting of feet to the radiator in near proximity to each other serves to suppress mutual vibration with the power transformers and other sources of vibration.

- **Compressed Audio Restorer to enhance digital music files**
  Denon's audio technology for MP3, WMA and MPEG-4 AAC compressed format to reproduce higher frequency range and deeper bass sound. This technology provides better sound for internet radio, iPod or iPhone.

- **Denon Remote App**
  The Denon Remote App available for free on iTunes App store transfers your iPhone or iPod touch in a nice remote control supporting the key features of the AVR. But it doesn't stop here as you can control the network audio streaming from your PC and internet radio function supported by cover art. That's ease of use, that's fun.

- **Support AirPlay and Network Functions**
  When connected to a network, the AVR-2312 can play audio files and still images such as photographs that are stored on your computer. You can also listen to internet radio and a host of other online music sources that use network technology. The AVR-2312 also supports AirPlay that lets you stream your music library from an iPhone, iPad, iPod touch, or iTunes.

- **Easy operation with Setup Wizard**
  The new Setup Wizard in English, French and German will guide you throught the full setup of the unit including speaker wiring, Audyssey speaker calibration, source selection and network setup all supported by graphics showing what to do and where to find the right connector.

SOURCE SETUP
DENON
For Audio/Video connection, an HDMI cable is recommended for the best performance if the device is equipped with an HDMI connector.
Connect with HDMI
Other options
Select
Back to TOP

*An image of Setup Wizard

- **Picture Adjust**
  You can adjust the picture quality and reduce any noise appearing on the TV. (Contrast, Brightness, Chroma level, Hue, Reduce overall picture noise, Emphasise picture contours).

- **Advanced Graphical User Interface (GUI) overlay on HDMI**
  This nice function let you keep the full overview even while watching a movie. Just check your settings or get the volume and sorround mode indication overlayed on the film you watch. Don't miss any scene.

*An image of OverLay GUI

- **2 source / 2 zone output + 1 dedicated pre out**
  The AVR-2312 lets you enjoy a program source in the Main Zone (the room where the AVR-2312 is located) and in Zone 2 (another room). The source can be the same for both zones, or you can enjoy different sources in those zones if you prefer. The AVR-2312 even has a separate preamp for Zone 2 that lets you connect an independent power amp in that room.

- **2-line fluorescent display on front panel**
- **Pre memory remote control handset with Glow-Key**
- **Remote Setup Guidance**
- **Auto surround mode**
- **Sleep timer function**
- **Audio Delay function (0 to 200 msec)**
- **Muting level settings (Full / -40 dB / -20 dB)**
- **Audio level memory, capable of correcting different signal levels for each input device**
- **Variable subwoofer crossover switching**
- **Trigger output (150 mA)**

*1) Requires contract with Internet service provider.

Main Specifications

Power amplifier section	
Rated output	*THD figures are power amp stage values.
Front L/R	105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %)
	135 W + 135 W (6 ohms, 1 kHz, THD 0.7%)
Centre	105 W
	(8 ohms, 20 Hz - 20 kHz, THD 0.08 %)
	135 W
	(6 ohms, 1 kHz, THD 0.7%)
Surround L/R	105 W + 105 W
	(8 ohms, 20 Hz - 20 kHz, THD 0.08 %)
	135 W + 135 W
	(6 ohms, 1 kHz, THD 0.7%)
Surround Back L/R	105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %)
	135 W + 135 W
	(6 ohms, 1 kHz, THD 0.7%)

Preamplifier section	
Input sensitivity/ impedance	200 mV / 47 kΩ/kohms
Frequency response	10 Hz ~ 100 kHz — +1, –3 dB (DIRECT mode)
S/N Ratio	100 dB (IHF-A weighted, DIRECT mode)
FM section	
Tuning frequency range	87.5 - 108 MHz
AM section	
Tuning frequency range	522 - 1611 kHz
General	
Power supply	230 V, 50 Hz
Power consumption	600 W (Standby 0.1 W, CEC standby 2.2 W)
Dimensions (W x H x D)	434 x 167 x 382 mm
Weight	11.0 kg

Ports

IN	HDMI (included front 1)	x 7
	Component	x 2
	S-Video	x 2
	Composite (video) (included front 1)	x 4
	Analogue Audio (included front 1)	x 7
	Digital Optical	x 2
	Digital Coaxial	x 2
OUT	HDMI Monitor	x 1
	Component	x 1
	Composite Monitor	x 2
	Audio Preout (SW)	x 2
	Audio Preout (L/R)	x 1
	Audio Recout (L/R)	x 1
	Phones	x 1
OTHER	Ethernet	x 1
	USB port	x 1
	Microphone Port	x 1
	Dock Control Port	x 1
	FM Tuner Antenna	x 1
	AM Tuner Antenna	x 1
	Remote Control In/Out	In 1 / Out 1
	RC232C	x 1
	DC12V 150mA MAX. trigger out	x 1

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